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On the Theory of Optical Instruments with Automatic Focusing of Image and Object

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shown how annealing may be perfectly effected in a minimum time. With the apparatus erected in their laboratory Messrs. Hilger are prepared to test specimens for the trade.

T. F. C.

"ON THE THEORY OF OPTICAL INSTRUMENTS WITH AUTOMATIC FOCUSING OF IMAGE AND OBJECT." (**ZEIT. für INST.**, October).—Dr. H. Lehmann describes the geometrical construction connecting the successive positions of object and image in automatic focusing devices. More than once he acknowledges these are well known in England, but novel in Germany. He describes geometrical constructions by Pizzighelli, Carpentier, Killian, and Sampson, and shows how they can be applied to "scissors" linkwork or trammels, in one case so accurately that even a final touch by hand is unnecessary.

Illustrations are also given of models for purposes of instruction, which show the necessary linkwork to maintain the object and image in conjugate positions.

Enlarging cameras embodying similar principles are already on the market in this country, and the variable power telescope which remains in focus throughout the changes of magnification is another application. The article is to be continued, and will be abstracted more fully when complete.

W. S.